

Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/593,107
				Filing Date	October 25, 2007
				First Named Inventor:	Shu Yuan
				Art Unit	2892
				Examiner Name	Pham, Hoai V.
Sheet	1	of	5	Attorney Docket Number	7989P003

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (If known)				
		us-	4,107,720	8/15/1978	Pucel et al.	
		us-	5,192,987	3/9/1993	Khan et al.	
		us-	5,405,804	4/11/1995	Yabe	
		us-	5,654,228	8/5/1997	Shieh et al.	
		us-	6,091,085	7/16/2002	Lester	
		us-	6,169,297	1/2/2001	Jang et al.	
		us-	6,210,479	4/3/2001	Bojarczuk et al.	
		us-	6,307,218	10/23/2001	Steigerwald et al.	
		us-	6,365,429	4/2/2002	Kneissl, et al.	
		us-	6,420,242	7/16/2002	Cheung et al.	
		us-	6,420,732	7/16/2002	Kung et al.	
		us-	6,492,661	12/10/2002	Chien et al.	
		us-	6,562,648	5/13/2003	Wong et al.	
		us-	6,573,537	6/3/2003	Steigerwald et al.	
		us-	2002/0022286 A1	2/21/2002	Nikolaev et al.	

FOREIGN PATENT DOCUMENTS						
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		Country Code ³	Number ⁴ Kind Code ⁵ (if known)			
		CN	1373522 A	10/9/2002	Quanxin Photoelectric Science	*
		EP	1 061 590 A1	12/20/2000	Shin-Etsu Handotai Co., Ltd.	
		EP	1 139 409 A2	10/4/2001	Agere Systems Guardian Corporation	
		EP	1 326 290 A2	7/9/2003	Xerox Corporation	
		JP	59-112667	6/29/1984	Fujitsu Ltd.	*
		JP	2000-183400	6/30/2000	Toshiya et al.	*
		JP	2000-294837	10/20/2000	Stanley Electric Co Ltd	*
		JP	2001-036129	2/9/2001	Dowa Mining Co.	*
		JP	2001-237461	8/31/2001	Tokyo Shibaura Electric Co.	*
		JP	2005-236048	9/2/2005	Shin-Etsu Handotai KK	*
		JP	2006-253647	9/21/2006	Rohm Co. Ltd.	*

* only Abstract in English

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		Number-Kind Code ² (if known)				
		us-	2002/0034835 A1	3/21/2002	Chen et al.	
		us-	2002/0093023 A1	7/18/2002	Camras et al.	
		us-	2002/0113279 A1	8/22/2002	Hanamaki et al.	
		us-	2002/0117681 A1	8/29/2002	Weeks et al.	
		us-	2002/0134985 A1	9/26/2002	Chen et al.	
		us-	2002/0179910 A1	12/5/2002	Slater Jr.	
		us-	2003/0038284 A1	2/27/2003	Kurahashi et al.	
		us-	2003/0064535 A1	4/3/2003	Kub et al.	
		us-	2003/0111667 A1	6/19/2003	Schubert	
		us-	2003/0151357 A1	6/19/2003	Uemura	
		us-	2004/0026709 A1	2/12/2004	Bader et al.	
		us-	2004/0104395 A1	6/3/2004	Hagimoto et al.	
		us-	2004/0130037 A1	7/8/2004	Mishra et al.	
		us-	2005/0014303 A1	1/20/2005	Tsai et al.	
		us-	2005/0026399 A1	2/3/2005	Chien et al.	

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		Country Code ³	Number ⁴ Kind Code ⁵ (if known)			
		JP	10-117016	5/6/1998	Nichia Chem Ind. Ltd.	*
		KR	10-2002-079659	10/19/2002	Epivalley Co. Ltd.	*
		SG	200401964-2	4/7/2004	Tinggi Technologies Private Limited	
		SG	200506301-1	9/29/2005	Tinggi Technologies Private Limited	
		SG	200506897-8	10/19/2005	Tinggi Technologies Private Limited	
		SG	200508210-2	12/20/2005	Tinggi Technologies Private Limited	
		SG	200605500-8	8/16/2006	Tinggi Technologies Private Limited	
		SG	200606050-3	9/4/2006	Tinggi Technologies Private Limited	
		TW	475276 B	2/1/2002	Ind. Tech. Res. Inst.	*
		TW	419836 B	1/21/2001	Toyoda Gosei KK	*
		WO	2005/064666 A1	7/14/2005	Regents of the University of California	

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		Number-Kind Code ² (if known)				
		US-	2005/0035354 A1	2/17/2005	Lin et al.	
		US-	2005/0082555 A1	4/21/2005	Chien et al.	
		US-	2005/0087884 A1	4/28/2005	Stokes et al.	
		US-	2005/0093002 A1	5/5/2005	Tsai et al.	
		US-	2005/0127397 A1	6/16/2005	Borges et al.	
		US-	2005/0164482 A1	7/28/2005	Saxlar	
		US-	2006/0124939 A1	6/15/2006	Lee et al.	
		US-	2006/0163586 A1	7/27/2006	Denbaars et al.	
		US-	2006/0186418 A1	8/24/2006	Edmond et al.	
		US-	2007/0029541 A1	2/8/2007	Xin et al.	
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		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
			WO 2005/088743 A1	9/22/2005	Tinggi Technologies Private Limited		
			WO 2005/029572 A1	3/31/2005	Tinggi Technologies Private Limited		
			WO 2005/029573 A1	3/31/2005	Tinggi Technologies Private Limited		
			WO 2005/098974 A1	10/20/2005	Tinggi Technologies Private Limited		
			WO 2007/037762 A1	5/4/2007	Tinggi Technologies Private Limited		
			WO 2007/046773 A1	4/26/2007	Tinggi Technologies Private Limited		
			WO 2007/073354 A1	6/28/2007	Tinggi Technologies Private Limited		
			WO 2008/020819 A1	2/21/2008	Tinggi Technologies Private Limited		
			WO 2008/030188 A1	3/15/2008	Tinggi Technologies Private Limited		

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NON PATENT LITERATURE DOCUMENTS					
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		M.K. KELLY, et al., "Optical Process for Liffoff of Group III-Nitride Films," Physica Status Solidi (a), Volume 159, Issue 1, pgs. R3-R4, (November 28, 1996).			
		ZHIFANG FAN, et al., "Very Low Resistance Multilayer Ohmic Contact to <i>n</i> -GaN," Applied Physics Letters, Volume 68, Issue 12, pgs. 1672-1674, (March 18, 1996).			
		I. SCHNITZER, et al., "30% External Quantum Efficiency from Surface Textured, Thin-Film Light-Emitting Diodes," Applied Physics Letters, Volume 63, Issue 16, pgs. 2174-2176, (October 18, 1993).			
		SHYI-MING PAN, et al., "Improvement of InGa _{0.5} N-GaN Light-Emitting Diodes with Surface-Textured Indium-Tin-Oxide Transparent Ohmic Contacts," IEEE Photonics Technology Letters, Volume 15, Issue 5, pgs. 649-651, (May 2003).			
		CHUL HUH, et al., "Improved Light-Output and Electrical Performance of InGa _{0.5} N-Based Light-Emitting Diode by Microroughening of the <i>p</i> -Ga _{0.5} N Surface," Journal of Applied Physics, Volume 93, Issue 11, pgs. 9383-9385, (June 1, 2003).			
		F.A. KISH, et al., "Very High-Efficiency Semiconductor Wafer-Bonded Transparent-Substrate (Al _x Ga _{1-x}) _{0.5} In _{0.5} P/GaP Light-Emitting Diodes," Applied Physics Letters, Volume 64, Issue 21, pgs. 2839-2841, (May 23, 1994).			
		R.H. HORNG, et al., "AlGaInP Light-Emitting Diodes with Mirror Substrates Fabricated by Wafer Bonding," Applied Physics Letters, Volume 75, Issue 20, pgs. 3054-3056, (November 15, 1999).			
		H. SUGAWARA, et al., "Characteristics of a Distributed Bragg Reflector for the Visible-Light Spectral Region using InGa _{0.5} AlP and GaAs: Comparison of Transparent- and Loss- Type Structures," Journal of Applied Physics, Volume 74, Issue 5, pgs. 3189-3193, (September 1, 1993).			
		PCT International Search Report for PCT Application No. PCT/SG2003/000222 containing Communication relating to the Results of the Partial International Search Report, 3 pgs., (December 9, 2003).			
		PCT International Search Report for PCT Application No. PCT/SG2003/000223 containing Communication relating to the Results of the Partial International Search Report, 3 pgs., (December 9, 2003).			
		PCT International Search Report for PCT Counterpart Application No. PCT/SG2005/000061 containing Communication relating to the Results of the Partial International Search Report, 2 pgs., (May 12, 2005).			

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		PCT International Search Report for PCT Application No. PCT/SG2005/000062 containing Communication relating to the Results of the Partial International Search Report, 2 pgs., (May 12, 2005).			
		PCT International Search Report for PCT Application No. PCT/SG2006/000254 containing Communication relating to the Results of the Partial International Search Report, 4 pgs., (November 16, 2006).			
		PCT International Search Report for PCT Application No. PCT/SG2006/000255 containing Communication relating to the Results of the Partial International Search Report, 3 pgs., (November 6, 2006).			
		PCT International Search Report for PCT Application No. PCT/SG2006/000395 containing Communication relating to the Results of the Partial International Search Report, 3 pgs., (February 26, 2007).			
		PCT International Search Report for PCT Application No. PCT/SG2007/000261 containing Communication relating to the Results of the Partial International Search Report, 3 pgs., (October 12, 2007).			
		PCT International Search Report for PCT Application No. PCT/SG2007/000288 containing Communication relating to the Results of the Partial International Search Report, 3 pgs., (November 9, 2007).			

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